

FIG.1  
Prior art

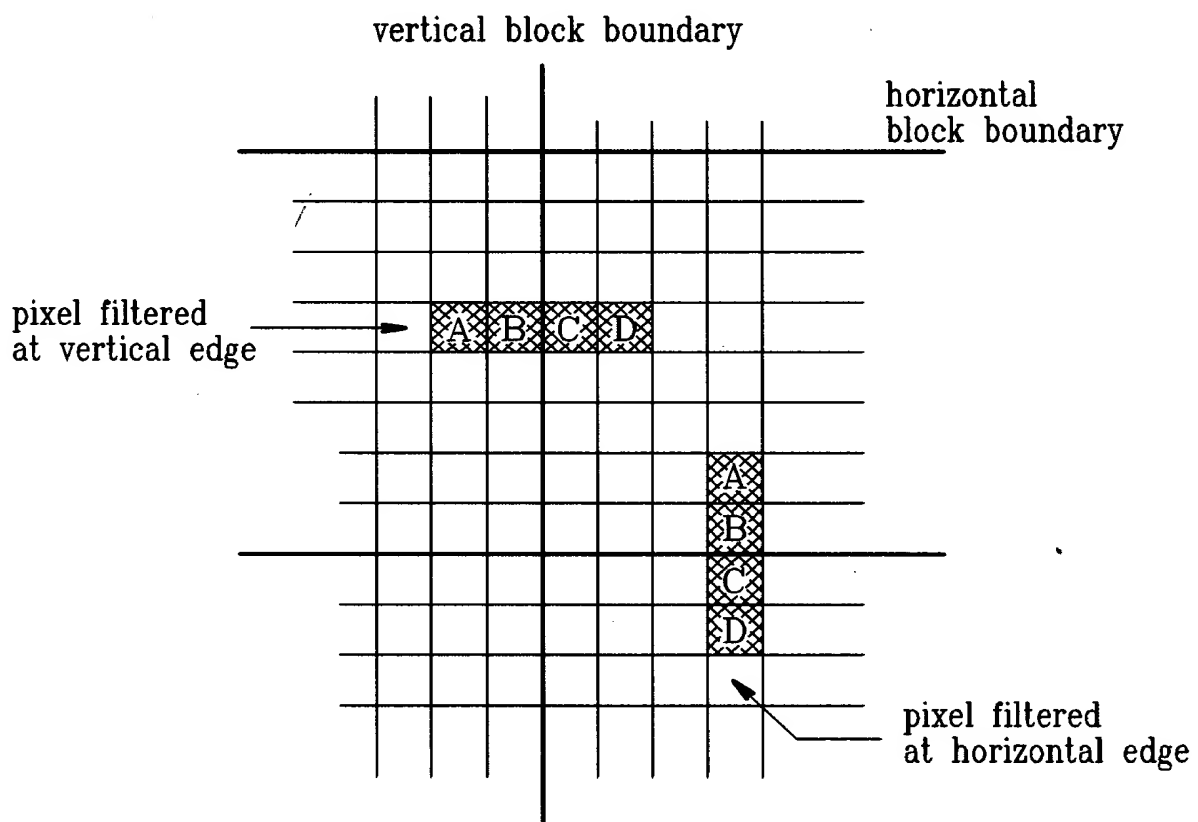


FIG.2

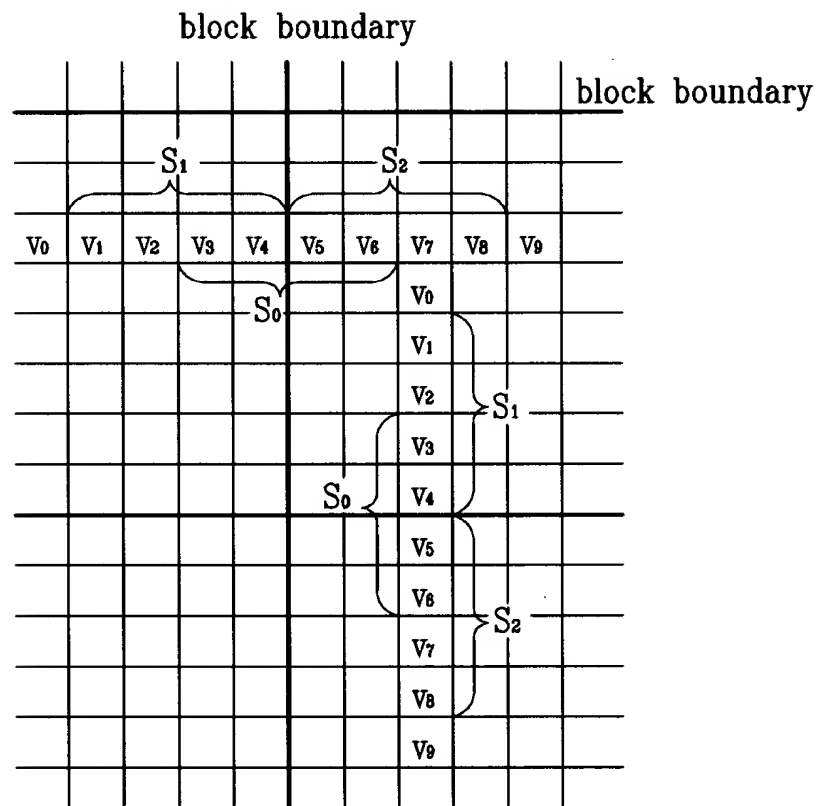


FIG.3

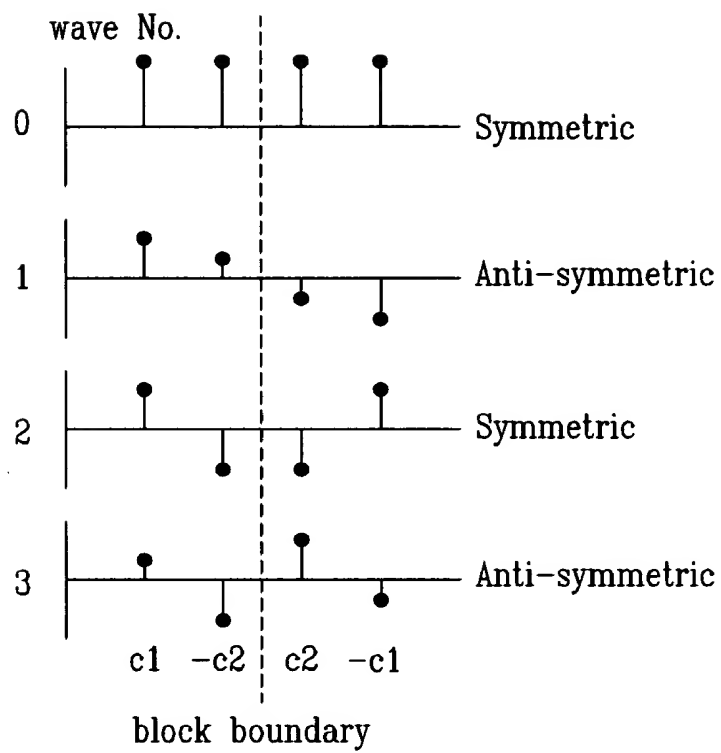
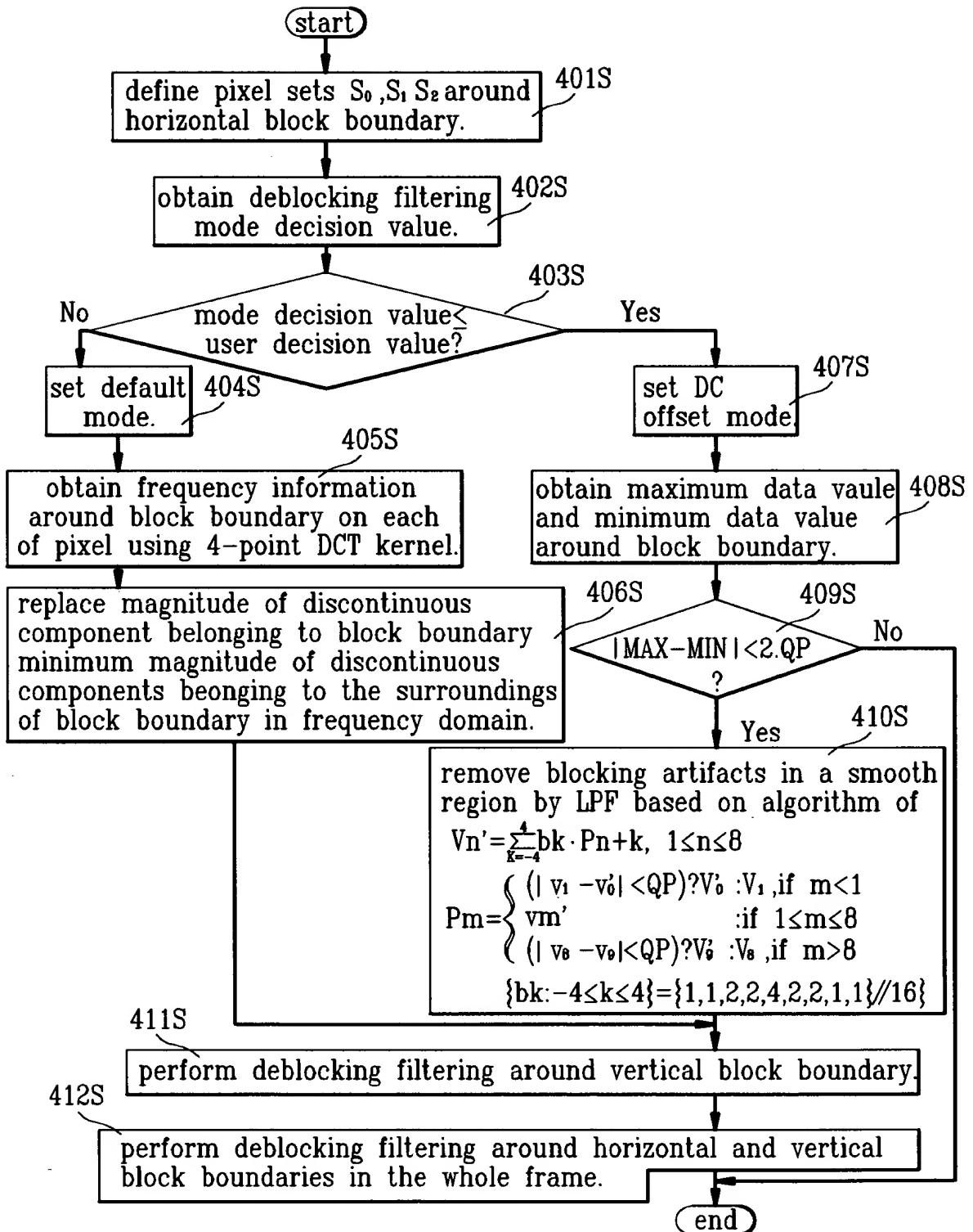


FIG.4



## post filter simulation results

FIG.5

| condition | sequence          | QP | bits     | PSNR_Y     |                       |                   |                  |                   |                   |                   |                       |
|-----------|-------------------|----|----------|------------|-----------------------|-------------------|------------------|-------------------|-------------------|-------------------|-----------------------|
|           |                   |    |          | VM<br>Only | Telenor<br>Deblocking | PSL<br>Deblocking | NS<br>Deblocking | SEC<br>Deblocking | SEC<br>Deblocking | LSS<br>Deblocking | LSS+SEC<br>Deblocking |
| 10Kbps    | Hall monitor      | 17 | 96563    | 30.04      | 30.22                 | 30.14             | 30.10            | 30.30             | 30.20             | 30.37             | 30.43                 |
|           | Container ship    | 17 | 93566    | 29.21      | 29.29                 | 29.05             | 29.24            | 29.38             | 29.34             | 29.43             | 29.50                 |
| 7.5Hz     | Mother & daughter | 15 | 96579    | 32.32      | 32.43                 | 32.35             | 32.30            | 32.31             | 32.44             | 32.49             | 32.48                 |
|           | Hall monitor      | 9  | 236220   | 33.82      | 34.03                 | 33.85             | 33.90            | 34.09             | 34.00             | 34.20             | 34.24                 |
| QCIF      | Container ship    | 10 | 217480   | 32.36      | 32.44                 | 32.08             | 32.36            | 32.50             | 32.49             | 32.54             | 32.61                 |
|           | Mother & daughter | 8  | 231791   | 35.20      | 35.31                 | 35.19             | 35.07            | 35.23             | 35.25             | 35.36             | 35.31                 |
| 10Hz      | -Foreman          | 13 | 478108   | 30.91      | 30.97                 | 30.89             | 30.87            | 30.95             | 31.00             | 31.06             | 31.07                 |
|           | Coast guard       | 14 | 446028   | 29.01      | 28.99                 | 28.54             | 28.97            | 28.98             | 28.92             | 29.09             | 28.93                 |
| 10Hz      | Mother & daughter | 7  | 484656   | 34.30      | 34.45                 | 34.28             | 34.11            | 34.34             | 34.36             | 34.48             | 34.48                 |
|           | News              | 18 | 472973   | 31.20      | 31.32                 | 31.19             | 31.21            | 31.33             | 31.31             | 31.40             | 31.40                 |
| CIF       | Container ship    | 10 | 468027   | 36.06      | 36.22                 | 36.07             | 35.93            | 36.08             | 36.13             | 36.18             | 36.08                 |
|           | Hall monitor      | 12 | 458086   | 33.59      | 33.81                 | 33.82             | 33.64            | 33.89             | 33.74             | 34.02             | 34.02                 |
| 112Kbps   | News              | 11 | 1139868  | 34.00      | 34.13                 | 34.06             | 33.97            | 34.17             | 34.13             | 34.26             | 34.29                 |
|           | Foreman           | 30 | 1184538  | 28.25      | 28.33                 | 28.09             | 28.24            | 28.23             | 28.32             | 28.35             | 28.37                 |
| 15Hz      | Coast guard       | 29 | 1172406  | 26.36      | 26.35                 | 25.95             | 26.34            | 26.31             | 26.28             | 26.42             | 26.28                 |
|           | S Stefan          | 13 | 9796735  | 29.00      | 29.02                 | 28.31             | 28.97            | 29.05             | 29.05             | 29.12             | 29.13                 |
| 1Mbps     | S Stefan          | 13 | 9796735  | 29.00      | 29.02                 | 28.31             | 28.97            | 29.05             | 29.05             | 29.12             | 29.13                 |
| SIF_30Hz  | Mobile & Calendar | 14 | 10259224 | 26.25      | 26.21                 | 25.61             | 25.68            | 26.30             | 26.30             | 26.29             | 26.33                 |